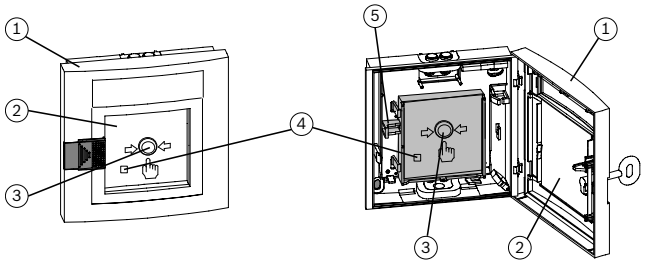
FMC-210-DM Double Action Call Points

BOSCH
Invented for life

- Adjustment after alarm triggering
- Individual identification thanks to automatic or manual detector addressing
- Indicator LED for alarm or for inspection evaluation
- Query routines with evaluation and multiple transmission
- Maintains LSN loop functions in the event of wire interruption or short-circuit thanks to two integrated isolators

The FMC-210-DM Double-action Call Points are used for manual triggering, and can be used in the Local SecurityNetwork LSN and LSN improved. Form H Manual Call Points are designed for outdoor deployment, form G Manual Call Points are designed for indoor deployment.

Functions



In the event of an alarm, the glass pane (2) is broken first, then the manual call point (3) is pressed hard. This activates the microswitch for alarm triggering and the indicator LED (4) blinks. A mechanism holds the pressed call point down.
The manual call point can be reset with the reset lever (5) or by closing the door of the manual call point (1). The indicator LED (4) goes out.

This does not reset the alarm on the fire panel. Individual call point identification with display of the call point address on the fire panel ensures the quick location of the triggered call point.

Variants
The designs of the manual call points for outdoor and indoor use are identical. The manual call points for indoor use (form G) are available in red, blue, yellow, and green. The manual call points for outdoor use (form H) are available in red and blue.
Form H manual call points are equipped with an especially resistant PC board layered with parylene.

Notice
The key must be ordered separately.

Improved LSN features
The manual call points offer all the features of the improved LSN technology:

- Flexible network structures, including T-tapping without additional elements
- Up to 254 LSN improved elements per loop or stub line
- Automatic or manual detector addressing selectable via rotary switch, in each case with or without auto-detection

- Shielded and unshielded cables can be used
- Cable length up to 3000 m (with LSN 1500 A module)
- Downwards compatibility to existing LSN systems and control panels

Certifications and approvals

Type Number	Complies with
FMC-210-DM-G-R	EN 54-11:2001/A1:2005, EN 54-17:2005
FMC-210-DM-H-R	EN 54-11:2001/A1:2005, EN 54-17:2005
FMC-210-DM-G-Y	EN 12094-3:2003, EN 54-17:2005

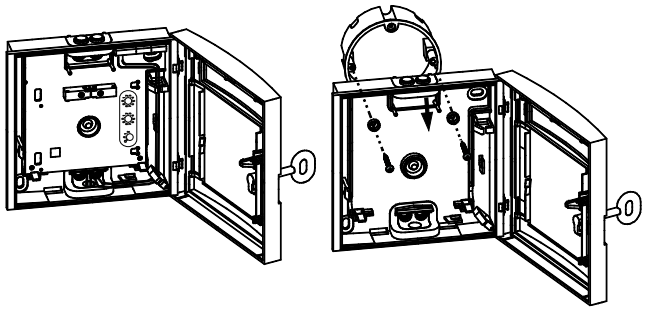
Region	Regulatory compliance/quality marks	
Germany	VdS	G 206098 FMC-210_DM-G-R/-H-R_G206098
	VdS	G 206099 FMC-210_DM-G-Y_G206099
Europe	CE	FMC-210-DM-G-B/-H-B/-SM-G-B
	CE	FMC-210_DM-G-R/-H-R/-SM-G-R
	CE	FMC-210-DM-G-Y / EST-G-B
	CPD	0786-CPD-20293 FMC-210-DM-G/H-R
	CPD	0786-CPD-20244 FMC-210-DM-G-Y
Poland	CNBOP	1505/2013 FMC-210 DM-G-R, FMC-210 DM-H-R
Ukraine	MOE	UA1.016.0070338-11 FMC-210-DM-G-R_FMC-210-DM-H-R_FMC-210-DM-G-R-A
Slovakia	EVPÚ	SK08-ZSV-0071 FMC-210-DM, FMC-210-EST

Installation/configuration notes

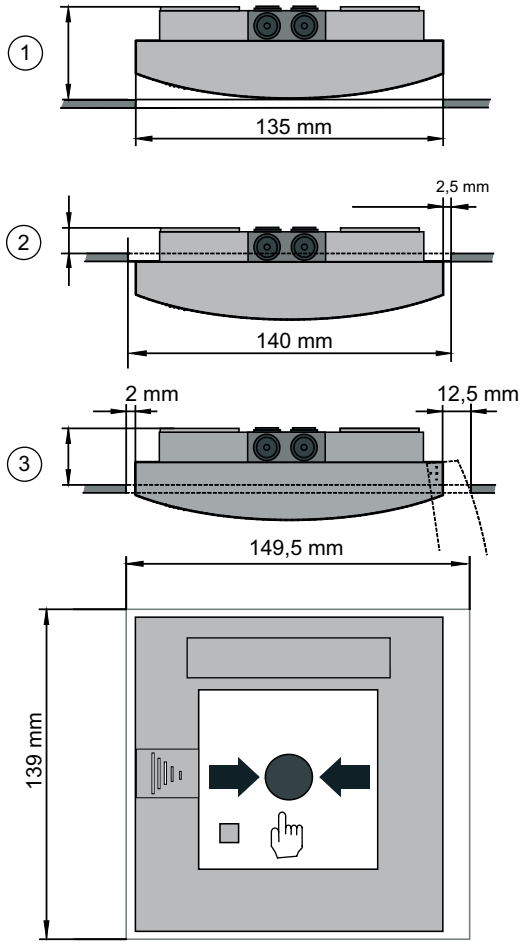
- The device must be mounted visibly along escape and rescue routes (e.g. exits, passageways, stairwells) and be easily accessible.
- An installation height of 1400 mm ±200 mm, measured from the middle of the device to the floor, must be maintained.
- The device must be adequately illuminated by sunlight or another light source (including emergency lighting if present).
- The maximum number of LSN elements that may be connected depends on their current consumption from the LSN data line. The limit values should be taken from the product information supplied with the fire panel used.
- Additional norms, guidelines, and planning recommendations with respect to installation location, etc. must be taken into account (see fire detector manual).
- The regulations of the local fire services must be observed.

Installation

- The cable duct can be surface-mounted or flush-mounted.



- Installation in fire hose cabinets is possible in three ways:



	Installation depth
1	ca. 40 mm
2	14 mm
3	min. 30 mm

Technical specifications

Electrical

Operating voltage (VDC)	24 (15 to 33)
Current consumption (mA)	0.4

Mechanics

Dimensions W x H x D (mm)	135 x 135 x 40
Housing material	Plastic ASA
Colors	Red RAL 3001 Blue RAL 5005 Yellow RAL 1003 Green close to RAL 6002
Weight (g)	Approx. 235

Environmental

Degree of protection (IEC 60529) Form H	IP 54
Degree of protection (IEC 60529) Form G	IP 52
FMC-210-DM-G-R	EN 54-11
FMC-210-DM-H-R	EN 54-11
FMC-210-DM-G-Y	EN 12094-3
Operating temperature Form H (°C)	-25 to 70
Operating temperature Form G (°C)	-10 to 55

FMC-210-DM-H-B Manual call point outdoor, blue
Analog addressable manual call point with glass pane for outdoor use, indirect alarm triggering (type B), blue
Order number **FMC-210-DM-H-B**

FMC-210-DM-G-Y Manual call point indoor, yellow
Analog addressable manual call point with glass pane for indoor use, indirect alarm triggering (type B), yellow
Order number **FMC-210-DM-G-Y**

FMC-210-DM-G-GR Manual call point indoor, green
Analog addressable manual call point with glass pane for indoor use, indirect alarm triggering (type B), green
Order number **FMC-210-DM-G-GR**

Accessories

FMX-FSO-LSN FMX-FSO-LSN foilset operating panel MCP
For the labeling field of manual call points of the series FMC-210, 1 unit = 10 sheets
Order number **FMX-FSO-LSN**

FMC-FST-DE Foil set, transparent
For yellow and blue manual call points of the series FMC-120 and FMC-210, 1 unit = 5 sheets
Order number **FMC-FST-DE**

FMC-SPGL-DEIL Spare glass
For manual call points of series DM, DKM, SKM, FMC-120 and FMC-210, 1 unit = 5 spare glasses
Order number **FMC-SPGL-DEIL**

FMM-KEY-FORM G/H Key for manual call point
made of red plastic (ASA)
Order number **FMM-KEY-Form G/H**

FMC-210-DM Double Action Call Points

	FMC-210-DM-G-R Manual call point indoor, red	FMC-210-DM-H-R Manual call point outdoor, red	FMC-210-DM-G-B Manual call point indoor, blue
Range of use	indoor	outdoor	indoor
Mounting	surface-mounted/flush-mounted	surface-mounted/flush-mounted	surface-mounted/flush-mounted
Operating voltage (VDC)	24 (15 to 33)	24 (15 to 33)	24 (15 to 33)
Current consumption (mA)	0.4	0.4	0.4
Protection category	IP 52	IP 54	IP 52
Permissible operating temperature (°C)	-10 to 55	-25 to 70	-10 to 55
Color	red RAL 3001	red RAL 3001	blue RAL 5005

	FMC-210-DM-H-B Manual call point outdoor, blue	FMC-210-DM-G-Y Manual call point indoor, yellow	FMC-210-DM-G-GR Manual call point indoor, green
Range of use	outdoor	indoor	indoor
Mounting	surface-mounted/flush-mounted	surface-mounted/flush-mounted	surface-mounted/flush-mounted
Operating voltage (VDC)	24 (15 to 33)	24 (15 to 33)	24 (15 to 33)
Current consumption (mA)	0.4	0.4	0.4
Protection category	IP 54	IP 52	IP 52
Permissible operating temperature (°C)	-25 to 70	-10 to 55	-10 to 55
Color	blue RAL 5005	yellow RAL 1003	green close to RAL 6002